

## NiceZyme View of ENZYME: EC 5.5.1.4

| Official Name   |   |                                      | <br>  |
|---|---|--------------------------------------|-------|
| Inositol-3-phosph   | nate synthase.  |                                      | <br>, |
| Alternative Name  | . 2 2   |                                      | <br>  |
| D-glucose 6-phos  | sphate cycloaldolase.   |                                      |       |
| Glucocycloaldola  | ise.  |                                      |       |
| Glucose 6-phosp   | hate cyclase.   |                                      |       |
| Inositol 1-phosph   | nate synthetase.  |                                      |       |
| Myo-inositol-1-ph   | osphate synthase.   |                                      |       |
| Reaction catalyse   |   |                                      | <br>  |
| ,   | phate <=> 1D-myo-inositol 3   | 3-phosphate                          | <br>  |
| Cofactor(s)   |   |                                      | <br>  |
| NAD.<br>Comment(s)  |   |                                      | <br>  |
|   |   |                                      |       |
| The NAD(+) dehyo<br>making C-6 into ar  | drogenates the -CHOH- gro   | condense with the -CI                |       |
| The NAD(+) dehyo<br>making C-6 into ar  | n active methylene, able to<br>DH reconverts C-5 into the           | condense with the -CI                |       |
| The NAD(+) dehyo<br>making C-6 into ar<br>enzyme-bound NA   | n active methylene, able to<br>DH reconverts C-5 into the           | condense with the -CI                |       |
| The NAD(+) dehyomaking C-6 into arenzyme-bound NACross-references Biochemical Pathways; map   | n active methylene, able to<br>DH reconverts C-5 into the           | condense with the -CI                |       |
| The NAD(+) dehyomaking C-6 into arenzyme-bound NACross-references Biochemical Pathways; mapnumber(s)  | n active methylene, able to aDH reconverts C-5 into the             | condense with the -CI                |       |
| The NAD(+) dehyomaking C-6 into arenzyme-bound NACross-references Biochemical Pathways; mapnumber(s) BRENDA   | n active methylene, able to DH reconverts C-5 into the  A3  5.5.1.4 | condense with the -CI<br>CHOH- form. |       |
| The NAD(+) dehydmaking C-6 into ar enzyme-bound NACross-references Biochemical Pathways; map number(s) BRENDA PUMA2 PRIAM enzyme-   | A3  5.5.1.4  5.5.1.4  | condense with the -CI<br>CHOH- form. |       |
| The NAD(+) dehyce making C-6 into are enzyme-bound NA Cross-references Biochemical Pathways; map number(s) BRENDA PUMA2 PRIAM enzyme-specific profiles Kyoto University LIGAND chemical database IUBMB Enzyme             | A3  5.5.1.4  5.5.1.4  5.5.1.4                                       | condense with the -CI<br>CHOH- form. |       |
| The NAD(+) dehyce making C-6 into an enzyme-bound NA Cross-references Biochemical Pathways; map number(s) BRENDA PUMA2 PRIAM enzyme-specific profiles Kyoto University LIGAND chemical database IUBMB Enzyme Nomenclature | A3  5.5.1.4  5.5.1.4  5.5.1.4  5.5.1.4                              | condense with the -CI<br>CHOH- form. |       |
| The NAD(+) dehydmaking C-6 into ar enzyme-bound NA Cross-references Biochemical Pathways; map number(s) BRENDA PUMA2 PRIAM enzyme-specific profiles Kyoto University LIGAND chemical                                      | A3  5.5.1.4  5.5.1.4  5.5.1.4  5.5.1.4                              | condense with the -CI                |       |